



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
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नई दिल्ली, शनिवार, मई 29, 1993 (ज्येष्ठ 8, 1915)

No. 22]

NEW DELHI, SATURDAY, MAY 29, 1993 (JYAISTHA 8, 1915)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 29th May 1993

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

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Calcutta-700 020.

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All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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## पेटेंट कार्यालय

एकस्य तथा अधिकस्य

कलकत्ता, दिनांक 29 मई 1993

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोली इस्टेट,  
तीसरा तल, मोरार परेल (पश्चिम),  
बम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र-गोवा, दमन तथा  
दीव एवं दादरा और नगर द्वीप ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
मरहटली मार्ग, करोल बाग,  
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,

61, वालाजाह रोड,

मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, स्मार्टन,  
मिनिक्काय तथा एमिनिडिनि द्वीप ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय,  
भवन 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020 ।

भारत का कर्नाटक क्षेत्र ।

तार पता—“पेटेंटॉफिस”

पेटेंट अधिनियम, 1970 या पेटेंट दिवस, 1972 में वर्ण-  
भित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट  
कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

सूचना :—सूचनाओं की अभावगी या तो नकल की जाएगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भूतलान योग्य अभावगी अथवा  
आवेदन या जहां उपयुक्त कार्यालय अवस्थित है; उस स्थान  
के अनुसूचित बैंक से नियंत्रक को भूतलान योग्य बैंक काफ़्त  
अथवा बैंक द्वारा की जा सकती है ।

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The following Patent office journals are available for sale as specified below, order for which may be placed with the Joint Controller of Patents and Designs, The Patent Office, 234/4, Acharya Jagadish Bose Road, Calcutta-700020. Postage charges will be levied extra to the cost of Journal.

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For 1982—Rs. 289.00.

## CORRIGENDUM

In the Gazette of India Part III, Sec. 2, dated 14th November, 1993 page 1332, Col. 2, for Patent application No. 171536, read the application No. 117/Bom/90 filed on 14th May, 1990 after the name of the Inventors.

In the Gazette of India Part III, Section 2, Under the heading 'PATENT SEALED' (which was supposed to be published on 3-4-1993).

Delete No. 169874.

## REGISTRATION OF PATENT AGENTS

The following persons have been registered as a Patent Agent under Sub-Section (1)(c)(i) of Section 126 of the Patents Act, 1970.

1. Sharadchandra D. Abhyankar,  
116/D, Panchsheel-3,  
Co-opt. HSG. Society Ltd.,  
18/287, Raheja Township,  
Malad (East), Bombay-400097.

2. Dr. R. H. Acharya,  
Law Office of H. K. Acharya & Co.,  
273, Sarvodaya, Near G.P.O.,  
Ahmedabad-380001.

Calcutta, the 29th May 1993

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent Brackets are the dates  
ed under section 135, of the patents, Act, 1970.

The 16th April 1993

- 217/Cal/93 : (1) Miao Kao Jung, (2) Chun Chou Hsien, (3)  
Per Otto Riffensdar. Earth-Leakage circuit break-  
er assembly.
- 218/Cal/93 : Dr. Gurchran Singh. Disposable circumcision  
clamp.
- 219/Cal/93 : (1) Saroj Kumar Mitra, (2) Naishadham Ven-  
kata Surya Krishna, (3) Hardeo Prasad Sinha,  
(4) Kennath Naveen Das, (5) Tarkeshwar  
Nath Verma, (6) Dharendra Kumar Singh, and  
(7) Tata Iron & Steel Co. Ltd. Ultra low  
cement castables & method for the preparation  
thereof.
- 220/Cal/93 : Phillips Petroleum Company. Catalyst which  
includes water for alkylation hydrocarbons.
- 221/Cal/93 : Phillips Petroleum Company. Catalyst for alky-  
lation of hydrocarbons.
- 222/Cal/93 : Vangula Pattabhi. An improved process for  
manufacture of fibre cement sheets.

The 19th April 1993

- 223/Cal/93 : Cawas Phiroze Nazir. Bi-powered Bicycle.
- 224/Cal/93 : (1) Saroj Kumar Mitra, (2) Kennath Naveen  
Das, (3) Hardeo Prasad Sinha, (4) Naishadham  
Venkata Surya Krishna, (5) Tarkeshwar Nath  
Varma, (6) Dharendra Kumar Singh, (7) Tata  
Iron & Steel Co. Ltd. Highly Adaptable Gun-  
ning Mass Specially for coke ovens & Method  
for the preparation thereof.
- 225/Cal/93 : Veag Vereinigte Energiewerke Aktiengesells-  
chaft. Water lance blower for cleaning heat  
exchangers.

The 20th April 1993

- 226/Cal/93 : Hoechst Aktiengesellschaft. Stabilized amino-  
benzotrifluorides.
- 227/Cal/93 : SKW Trostberg Aktiengesellschaft. Additive  
for a desulfurization agent for pig iron melts.
- 228/Cal/93. Sonic compressor systems, Inc. Acoustic reso-  
nator having mode-alignment-cancelled harmo-  
nics.

The 20th April 1993

- 229/Cal/93 : Saber Equipment Corporation. Fuel Flow In-  
dicator.

The 21st April 1993

- 230/Cal/93 : Discovery Chemicals, Inc. HCl Adsorbent and  
method for making and using same.
- 231/Cal/93 : Elililly and Company. Improved process for  
preparing cephalosporins.

The 22nd April 1993

- 232/Cal/93 : Steven C Quay. Phase shift colloids as Ultra-  
sound contrast agents.

The 23rd April 1993

- 233/Cal/93 : Phillips Petroleum Company. Catalyst for alky-  
lation of hydrocarbons.
- 234/Cal/93 : Hoechst Aktiengesellschaft. Process for the pre-  
paration of 2,5-di-phenylamino-terephthalic acid  
and its dialkyl esters.

- 235/Cal/93 : Vergola International Pty. Ltd. Improved end  
cap for louvre.

- 236/Cal/93 : PPB Limited. System for controlling electrical  
loads.

The 26th April 1993

- 237/Cal/93 : ICI India Limited. A single step process for  
the manufacture of 4-hydroxyphenyl-acetamide  
from ketals of a-bromo-p-hydroxy acetophen-  
one. (Divided out of no. 160/Cal/92; dated  
10-3-1992).
- 238/Cal/93 : American Cyanamid Company. Fungicidal  
agents.
- 239/Cal/93 : Crystal technology, Inc. Apparatus and method  
for cascade coupled integrated optical phase  
modulator for linearization of signal transfer.
- 240/Cal/93 : Fritz stahlecker and Hans stahlecker. A silver  
guiding arrangement for drafting units of sip-  
ping machines.
- 241/Cal/93 : Alloy rods Global, Inc. Welding electrodes for  
guiding arrangement for drafting units of spin-  
poists.
- 242/Cal/93 : K-Tron Technologies, Inc. Bulk Material  
balance.

The 27th April 1993

- 243/Cal/93 : Thomson Consumer Electronics, Inc. Auxiliary  
video information system including extended  
data services. (Convention No. 9209147.9 filed  
on 28-4-1992; United Kingdom).

APPLICATION FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS-600 002

The 6th April 1993

- 244/MAS/93 : Lucas Industries Public Limited Company.  
Pad assembly for a disc brake.  
(April 10, 1992; United Kingdom).
- 245/MAS/93 : Davy McKee (London) Limited. Process.  
(April 7, 1992; United Kingdom).
- 246/MAS/93 : Shell Internationale Research Maatschappij B.  
V. Process for upgrading a paraffinic feedstock.
- 247/MAS/93 : Shell Internationale Research Maatschappij  
B. V. Process for upgrading a paraffinic feed-  
stock.
- 248/MAS/93 : Vorwerk & Co., Interholding GmbH. dust  
filter bag for a vacuum cleaner.

The 7th April 1993

- 249/MAS/93 : Ronald K Dunton and Andrew M Homola.  
Compositions of matter containing particles of  
poly (fluoroethylene) capable of lodging on a  
variety of surfaces and the resulting products.
- 250/MAS/93 : FMC Corporation. Selective double backseat  
for valve stems.
- 251/MAS/93 : Smithkline Beecham p l c. Novel container  
and closure. (April 10, 1992; Great Britain).
- 252/MAS/93 : Delta Systems Design Limited. Twin screen  
imaging system.

The 8th April 1993

- 253/MAS/93 : CPC International Inc. Yeast debris products.  
(April 16, 1992; Great Britain).

The 12th April 1993

- 254/MAS/93 : Vittal Rao Nagoji Rao padam. A telephone  
handset with an in-built torch-light.

255/MAS/93 : Astra Research Centre India. A process for the preparation of a novel peptides. (Divisional to Patent Application No. 938/MAS/89).

256/MAS/93 : Astra Research Centre India. A process for preparing a probe. (Divisional to Patent Application No. 938/MAS/89).

257/MAS/93 : Astra Research Centre India. A process for the preparation of a diagnostic kit. (Divisional to Patent Application No. 938/MAS/89).

258/MAS/93 : Astra Research Centre India. A process for the preparation of a vaccine. (Divisional to Patent Application No. 938/MAS/89).

259/MAS/93 : Hoechst Aktiengesellschaft. Process and device for preparing a polymer of tetrafluoroethylene in aqueous suspension.

The 13th April 1993

260/MAS/93 : Maschinenfabrik Rieter AG. Crimping of thermoplastic threads.

261/MAS/93 : Maschinenfabrik Rieter AG. Apparatus for the continuous crimping of thermoplastic threads.

262/MAS/93 : Yoshida Kogyo K. K. Slider for slide fastener with automatic stop means.

The 15th April 1993

263/MAS/93 : Lankalapalli Gopala Rao. Improvements in or relating to manufacture of soda ash.

264/MAS/93 : Spic Science Foundation. A method of manufacture of high performance fuel cell electrodes with very low platinum loading.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI STATES THIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-13.

25th January, 1993

27/Bom/93 Prema M. Rath, Nirmala S. Rath, Laxminarayan J. Rath, Adit M. Rath, Sudarshan L. Rath, Master Sachin S. Rath. Pulley or pulleys with interchangeable self gripping bush capable of fitting over shafts of various diameters.

28/Bom/93 Prof. Pawar Maruti Sopanrao. A process of sugarcane preparation for juice extraction.

29/Bom/93 Prof. Pawar Maruti Sopanrao. A process of extraction of sugarcane juice.

27th January, 1993

30/Bom/93 Kersi Hormasji Kadodwalla. Invention for "A lock for motor cycle, moped or like two wheeler vehicles.

28th January 1993

31/Bom/93 Bhausaheb Bapurao Nikam. Improved screw conveyor for separate of juice from particles baggase (cush, cush) coming along with juice in the sugar cane crushing mill.

32/Bom/93 Bhausaheb Bapurao Nikam. Improved crushing mill with toothed under feed roller/rollers for sugar cane crushing mill.

33/Bom/93 Hoechst India Ltd., A process for the preparation of novel pharmacologically active 6/7-alkyloxy acyloxy-7/6-aminoacyloxy-polyoxygennated labdane derivatives.

29th January 1993

34/Bom/93 M/s. Vertikum Magas-es Melyepitmenyjavito Kiszovetkezet. A method for the manufacture of fodder and/or soil improving agents from waste material.

1st February 1993

35/Bom/1993 Mrs. Kusum A. Bardeskar. A green grass growing machine.

36/Bom/1993 Dr. Dilip Umakant Pathak. 9/8 circle needle. (for continuous suturing).

37/Bom/1993 Shri Sadanand Harchekar. Supreme electronic voting machine.

2nd February 1993

38/Bom/1993 (1) Shri Kantibhai Raichandbhai Patel (2) Shri Bharatkumar Kantibhai Patel. Airless electric spray gun.

39/Bom/1993 Mr. Binny Francis Chittilapilly. Domestic door security system.

40/Bom/1993 Darius Ardeshir Wadia. Method and apparatus for improving the thermal efficiency of a multistage suspension cyclone preheater system associated with a cement rotary kiln.

3rd February 1993

41/Bom/1993 Vishwanath Dattatreya Hukerikar. A commutator-less D.C. generator for variable speed prime-movers.

42/Bom/1993 Ratan Narandas Vanjani. Rear Mudguard use for two wheeler scooter.

5th February 1993

43/Bom/1993 Shivaram Shamrao Kulkarni. Automatic gate stream water level at constant elevation in reservoirs, water streams, canals and the like having tail water back effect situation.

44/Bom/1993 Shivaram Shamrao Kulkarni. Automatic gate for kolhapur type bandhara for maintaining upstream water level at constant elevation in rivers and water streams within its capacity having tail water back effect situation.

45/Bom/1993 VIP Industries Ltd. A heat sealing method.

46/Bom/1993 VIP Industries Ltd. A bumper for a luggage case.

47/Bom/1993 Dr. Dilip Umakant Pathak. Needle holding forcep.

8th February 1993

48/Bom/1993 Hindustan Lever Ltd. U.K. priority dt. 7-2-92. Cosmetic composition.

11th February 1993

49/Bom/1993 The Bombay Textile Research Association. Development of moving-fabric sample cutting gadget.

50/Bom/1993 Grasim Industries Ltd. Modifications in or relating to filtration apparatus for separating solid materials and suspended particles.

51/Bom/1993 M-Systems Flash Disk Pioneers Ltd. Externally undatable rom (Eurom).

18th February 1993

52/Bom/1993 Hansu Controls Ltd. A device for sliding to open or close curtains or door panels or shutters or the like.

22nd February 1993

53/Bom/1993 Hindustan Lever Ltd. G.B. Priority dt 21-2-92. Sunscreen agents.

23rd February 1993

54/Bom/1993 Sudarshan Chemical Industries Ltd. The plant and the process for demulsification of industrial waste coolant.

24th February 1993

- 55/Bom/1993 Tilak Raj Chaudhary. An improved light carrier sheath for laproscope.

26th February 1993

- 56/Bom/1993 Hindustan Lever Ltd. G.B. Priority dt. 2-3-1992. Hair care composition.
- 57/Bom/1993 Hindustan Lever Ltd. G.B. Priority dt. 27-2-1992. Cleansing composition.
- 58/Bom/1993 Hindustan Lever Ltd. G.B. Priority dt. 27-2-1992. Hair shampoo.

1st March 1993

- 59/Bom/1993 Gurubax Singh Himmat. Self driven irrigation system.

3rd March 1993

- 60/Bom/1993 The Director, The Silk & Art Silk Mills Research Association. A method for the preparation of water blown rigid polyurethane foam from aromatic polyester polyol based on polyester waste.
- 61/Bom/93 Charles V. Mesquita. Air pressure lift pump system.

4th March 1993

- 62/Bom/1993 Vinay Kumar Shridhar. An automatic device for controlling of dipper used for headlights of automobiles.
- 63/Bom/1993 Hindustan Lever Ltd. Stabilized peroxide gels containing fluoride.
- 64/Bom/1993 Hindustan Lever Ltd. U.K. Priority dt. 6-3-1992. Low Foaming, liquid cleaning compositions.

5th March 1993

- 65/Bom/1993 Jitendra S. Panchal. Vapogas for the generation of gas.
- 66/Bom/1993 Rochem Separation Systems (India) Pvt. Ltd. Spacer for guiding flowing medium.
- 67/Bom/1993 Rochem Separation Systems (India) Pvt. Ltd. Spacer element for guiding flowing medium.
- 68/Bom/1993 The Director, The Silk & Art Silk Mills Research Association. A method for the synthesis of hydroxyl terminated polyurethane coatings for textile to impart moisture permeable and water impermeable properties.

9th March 1993

- 69/Bom/1993 Adil Darius Daruwalla. 2 line fax selector.
- 70/Bom/1993 Satish Vasant Bansod & others. Tapered flocculation in continuous flow system.
- 71/Bom/1993 Vinod Kumar. Electro-static precipitator with electric field control grid electrode and collecting hopper.

10th March 1993

- 72/Bom/1993 Lupin Laboratories Ltd. A process for the preparation of crystalline cefadroxil.

11th March 1993

- 73/Bom/1993 Crompton Greaves Ltd. A compact encapsulated outdoor transformer and a method of manufacturing the same.
- 74/Bom/1993 Shridhar Shivram Surve. Improvement to non-auto-mobile two/three wheeler vehicle.
- 75/Bom/1993 Eagle Flask Industries Ltd. An improved cooking device.

APPLICATION FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, MUNICIPAL MARKET  
BUILDING, THIRD FLOOR, KAROL BAGH, NEW  
DELHI-1100 005.

15th February 1993

- 123/Del/1993 Council of Scientific and Industrial Research. "A process for making anti-piping compound suitable for steel mold casting and foundry applications".
- 124/Del/1993 Council of Scientific and Industrial Research. "A process to synthesize picolines selectively using modified ZSM-5 catalyst".
- 125/Del/1993 Council of Scientific and Industrial Research. "An improved process for the separation of aromatic hydrocarbons from mixtures containing such hydrocarbons and nonaromatics boiling in the range of straight run naphtha and kerosene".
- 126/Del/1993 Council of Scientific and Industrial Research. "A process for the recovery of copper and ferro-nickel from copper-nickel containing anode slag generated in copper plants".
- 127/Del/1993 Council of Scientific and Industrial Research. "A process for the recovery of copper and ferro-nickel from copper-nickel containing anode slag generated in copper plants".
- 128/Del/93 Council of Scientific and Industrial Research. "An electrolytic composition useful as an electrolyte in non-aqueous coin cells".
- 129/Del/1993 Council of Scientific and Industrial Research. "A process for the preparation of activated manganese dioxide electrode useful as a cathode in non-aqueous coin cells".
- 130/Del/1993 Exxon Chemical Patents Inc., "A process for the preparation of a graft copolymer. [Divisional: Date 27-11-1989].
- 131/Del/1993 Ingersoll-Rand Company, "Reversible bit bearing".
- 132/Del/1993 British Technology Group Limited, "Dental cement". (Convention Date 19-02-92) (United Kingdom).
- 133/Del/1993 Imperial Chemical Industries Plc., "Prilling process".

16th February 1993

- 134/Del/1993 De La Rue Giori S. A., "Device for conveying printed sheets in an installation for checking the quality of paper money".
- 135/Del/1993 De La Rue Giori S.A., "Device for conveying printed sheets in an installation for checking the quality of paper money".
- 136/Del/1993 De La Rue Giori S.A., "Method for separating sheets of paper stacked in reams and device for implementing this method".
- 137/Del/1993 Dr. Gouranga Bose & Dr. Dilip Ranganathan, "Microlense arrays".
- 137/Del/1993 A. B. Bhattacharyya and Suneet Tuli, "An automated Thermo and Acousto-Optic Instrument for the characterization of diffused/implanted acousto-optic material".
- 139/Del/1993 Kooperative "Kardiolog", "Apparatus for traction of the vertebral column".
- 140/Del/93 Cosmo Films Limited "Tracing paper".
- 141/Del/1993 Gulab Wadhawan an Indian National, "Self locking water tap with leak proof valve assembly".
- 142/Del/1993 Maxwell John Reynolds, "Dry powder compressed gas aerosol" (Convention Date 7-9-92 & 30-9-92) (Australia).
- 143/Del/1993 Maxwell John Reynolds, "Water based compressed gas aerosol". (Convention Date 7-9-92 & 30-9-92) (Australia).

- 144/Del/1993 Alex Dan Beltz, "Wearable, portable, lightweight artificial kidney".
- 145/Del/1993 Shell Oil Company, "Process for preparing low density porous crosslinked polymeric materials".
- 146/Del/93 Corning Incorporated, "Optical waveguide fiber with very thin titania-silica outer cladding layer and method for manufacturing same".

17th February 1993

- 147/Del/1993 General Electric Company, "UV Absorbing fused quartz and its use for lamp envelopes".
- 148/Del/1993 General Electric Company, "Universal burn metal halide lamp".
- 149/Del/1993 Albion Industries, Inc., "Thread inhibiting caster assembly".
- 150/Del/1993 Perkins Limited, "Variable timing gear device". (Convention Date 24-02-92) (United Kingdom).
- 151/Del/1993 Samsonite Corporation, "Luggage case". (Convention Date 26-02-92) (United Kingdom).
- 152/Del/1993 Orbital Engine Company (Australia) Pty. Ltd., "Fuel injector nozzles". (Convention Date 17-02-92) (Australia).

18th February 1993

- 153/Del/1993 Ajay Kunjibhari Sanghi, "Integrated voice data system for concurrently communicating voice and data over the telephone line".
- 154/Del/1993 Rohm and Haas Company, "A thermosetting powder coating composition".
- 155/Del/1993 Krupp Polysius, AG., "Method and grate cooler for cooling hot bulk material".
- 156/Del/1993 W. R. Grace & Co.-Conn., "Simultaneous monitoring of multiple water treatment performance indicators".

19th February 1993

- 157/Del/1993 The Procter & Gamble Company, "Improved mild soap-synbar".
- 158/Del/1993 Roussel-Uclaf, "Process for the preparation of purethrinoid esters derived from 6-(Trifluoromethyl)-Benzyl alcohol".
- 159/Del/1993 Biopak Technology, Ltd., "Process for the production of cyclic esters from hydroxy acids and derivatives thereof".

#### ALTERATION OF DATE UNDER SECTION 16

Patent No. 172268 Ante-dated to 16th February, 1987.  
(945/M/90)

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

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#### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र की उपर्युक्त कार्यालय को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

रूपांकन (चित्र आरखें) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिस उक्त कार्यालय से पत्र ब्यवहार द्वारा सुनिश्चित करने के उपरंत उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरखे कागजों को जोड़कर उसे 2 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Class - 172-D<sub>1</sub> - [GROUP-XX] 172261

Int. Cl.<sup>4</sup> - D 01 H 13/00

#### A FIBRE-PROCESSING DEVICE

Applicant : MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventors : (1) ROBERT IEMUTH  
(2) PAUL STAEHEL  
(3) RENE WAEBER  
(4) CHRISTOPH GRUENDLER  
(5) FRANZ MAECHLER

Application No. 629/MAS/88 filed September 7, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Officer, Madras Branch.

## 5 Claims

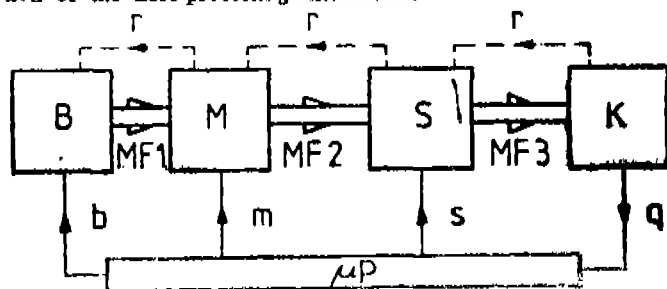
A fibre-processing device for producing fibre comprising:  
means defining a plurality of consecutive different fibre-processing stages;

said plurality of consecutive different fibre-processing stages containing a last fibre-processing stage and at least one predetermined fibre-processing stage preceding said last fibre-processing stage;

said at least one predetermined fibre-processing stage having a variable effective working width;

said at least one predetermined fibre-processing stage having width and thereby defining a preterminate production of the fibre-processing installation in terms of material through-flow per unit time and per unit length of said effective working width of said last fibre-processing stage; and

adjusting means operatively connected to said last fibre-processing stage for changing said variable effective working width of said at least one predetermined fibre-processing stage in order to thereby adjust said preterminate production of the fibre-processing installation.



(Com.-12 pages;

Drwgs.- sheet)

Ind. Class - 129-P&amp;G - [GROUP - XXXV]

172262

Int. Cl.<sup>4</sup> - B 23 B 9/08

## A MULTI-SPINDLE AUTOMATIC LATHE

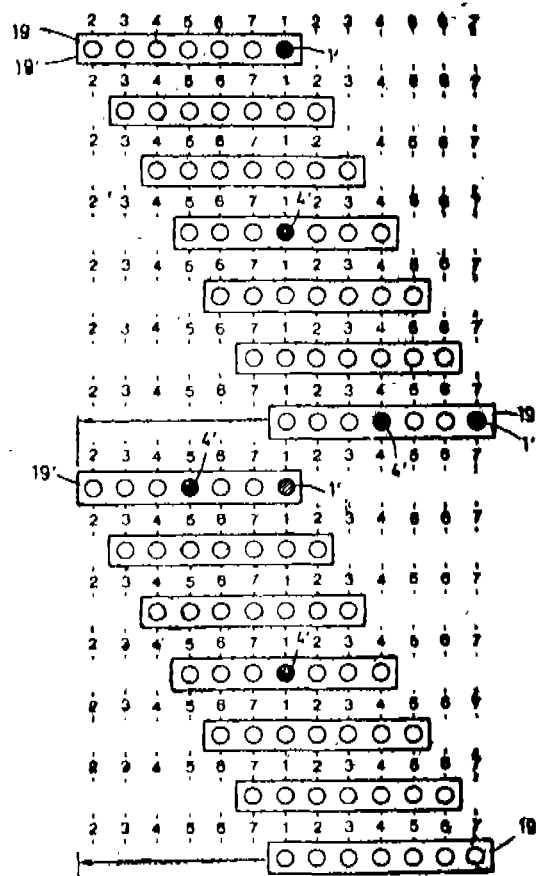
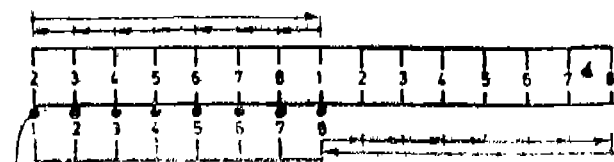
Applicants & Inventors : (1) PETER NAGEL, OF SCHULSTRASSE 14, D-5780 BESTWIG-RAMSBACH AND (2) FRANZ SCHMID, OF ERLLENWEG 27, D-7411 ST. JOHANN, BOTH OF GERMANY AND GERMAN NATIONALITY.

Application No. 758/MAS/88 filed October 31, 1988.

Appropriate Office for Opposition Proceedings Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 9 Claims

A multiple-spindle automatic lathe for the production of workpieces in successive machining stations comprising plurality of work spindles (10) and tool stations (1) shiftable cyclically with respect to one another, loading and unloading means for work pieces are provided at least one tool station and the said work spindles and tool stations are disposed in rectilinear arrays parallel to each other wherein for n number of work spindles there are 2n-1 number of tool stations disposed in the sequence 2 to n followed by 1 to n, for shifting each workpiece cyclically in a linear fashion relative to a subsequent station after each machining operation in a tool station and for returning to an initial machining station after n-1 conveying steps and a subsequent return stroke or a return stroke between two conveying steps.



(Com.-12 pages;

Drwgs-3 sheets)

Ind. Class - 90-I[GROUP - XXXVI]

172263

Int. Cl.<sup>4</sup> - C 03 C 3/04

## A METHOD OF PRODUCING A SILICA-CONTAINING GLASS BODY.

Applicant : AMERICAN TELEPHONE AND TELEGRAPH COMPANY, OF 550 MADISON AVENUE, NEW YORK, NY 10022, U.S.A., A CORPORATION DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A.

Inventors : (1) JAMES WILLIAM FLEMING  
(2) SANDRA ALENE PARDENEK

Application No. 806/MAS/88 filed November 17, 1988.

Convention date : December 4, 1987; (No. 82117/87; Australia).

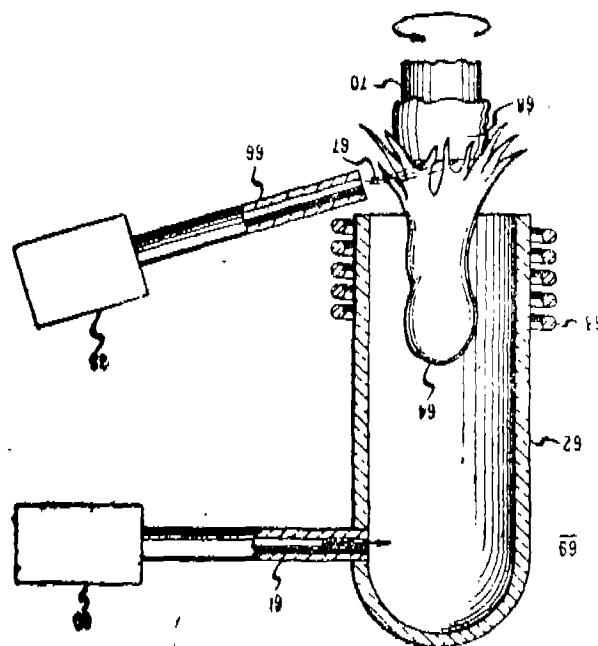
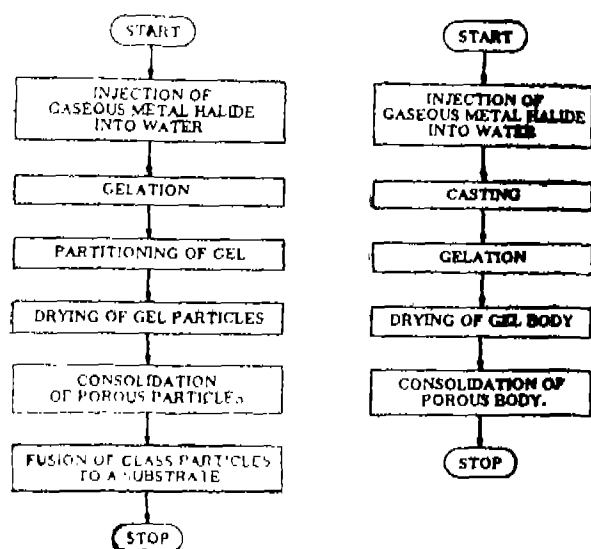
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 15 Claims

A method of producing a silica containing glass body comprising the steps of

(a) forming a silica containing gel by providing an aqueous medium such as herein described having water as a major constituent, introducing a gas stream containing at least one silicon halide gas and optionally containing metal halides such as herein described along with a carrier gas such as  $O_2$ ,  $H_2$ , Ar or  $N_2$  into the said aqueous medium to obtain a silicon halide containing aqueous liquid medium, wherein the concentration of the silicon halide gas in the gas stream introduced into the aqueous medium is sufficient to form the silica containing gel from the silicon halide containing aqueous liquid medium; and

(b) producing the glass body from the silica containing gel in a known manner.



(Com. - 19 Pages;

Drawgs - 5 sheets)

Ind. Class - 206-E-[LXII]

172264

Int. Cl.<sup>4</sup> - 06 F 9/22

## A MICROCOMPUTER

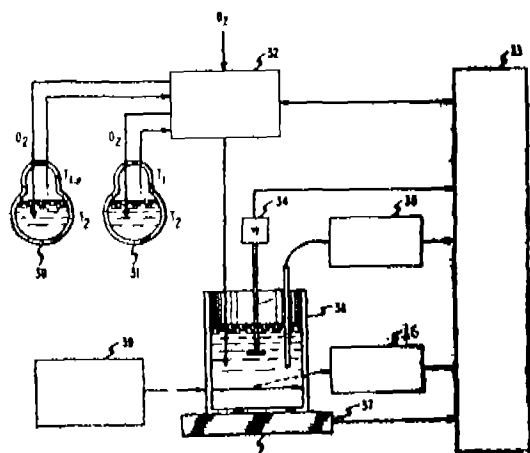
Applicant : J S TELECOMMUNICATIONS, A FRENCH COMPANY ORGANISED UNDER THE LAWS OF FRANCE, OF 36-38 RUE DE LA PRINCESSE, 78430, LOUVECIENNES, FRANCE.

Inventor : JEAN ANDRE PICANDEI

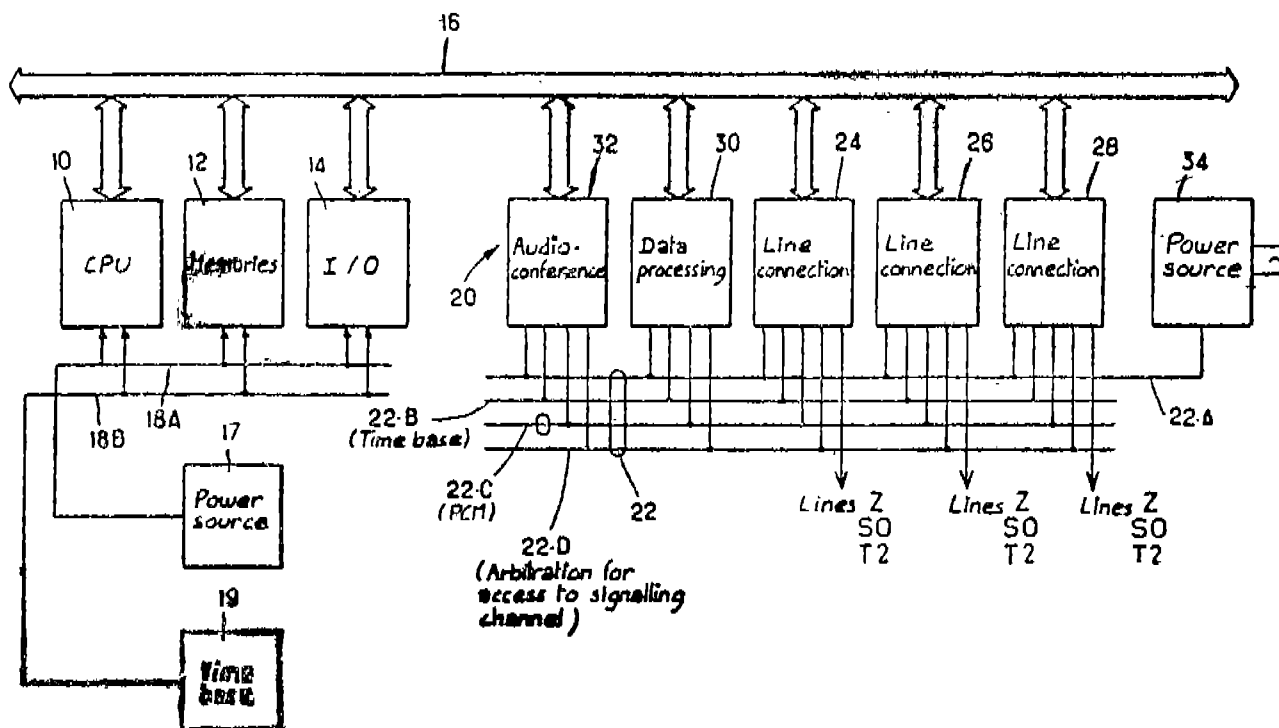
Application No. 506/MAS/89 filed July 3, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 9 Claims



A microcomputer comprising first electronic circuit boards on which first circuits are fitted for carrying out central processing unit, memory and input/output functions, and interconnected to a first but, at least one second electronic circuit board having interface circuits for connecting a plurality of terminals to an Integrated Service Digital Network (ISDN) through line means, switching means for switching of data transmitted over said line means to constitute an ISDN Digital Subscriber Terminal (DST) integrated within the micro-computer, wherein the management and switching of data transmitted over said lines and the signalling required for exchanging said data are carried out by means of management and switching circuits provided on said at least one electronic circuit board to obtain the DST function without calling on the resources of the central processing unit of the microcomputer.



Com. - 14 pages;

Drwgs. - 3 sheets)

Ind. Cl. : 32 E [IX (1)]

172265

Int. Cl.<sup>4</sup> : C 08 F, 210/00**A PROCESS FOR PREPARING RANDOM COPOLYMERS OF PROPYLENE AND ETHYLENE.**

Applicants : UNION CARBIDE CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, OF OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, UNITED STATES OF AMERICA.

Inventors : FRED CHUN-CHIEN TWU, IAN DONALD BURDETT.

Application No. 376/MAS/89 filed on 11th May 1989

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**10 Claims**

A process for preparing random copolymers of propylene and ethylene having good flow properties and enhanced activity comprising polymerizing propylene and ethylene comonomers in a gas phase in at least one fluidized bed in the presence of a catalyst system containing (i) a catalyst precursor having magnesium, titanium, halogen, and a mono or polycarboxylic acid ester as an inner electron donor (ii) a hydrocarbylaluminum cocatalyst and (iii) a mono or polycarboxylic acid ester as a selectivity control agent, provided that the selectivity control agent is different from the inner electron donor wherein the atomic ratio of aluminium to titanium in the range of 5 to 300; the temperature in the fluidized bed is in the range 50°C to 110°C; the molar ratio of aluminium to selectivity control agent is in the range of 0.5 to 5; the propylene partial pressure is in the range of 50 to 450 psi; and the ethylene partial pressure is in the range of 0.25 to 25 psi.

(Complete specification pages-21 pages;  
2—87 GI/93

Drwgs. : Nil)

Ind. Class - 168E - [GROUP - LI(4)]

172266

Int. Cl.<sup>4</sup> - B 63 B 45/08**"A SONOBUOY DISPENSER".**

Applicant : NORMALAIR - GARRETT (HOLDINGS) LIMITED, OF WESTLAND WORKS, YEovil, SOMERSET, ENGLAND, A BRITISH COMPANY.

Inventors (1) ANTHONY ELLISON CARR (2) PHILIP JAMES WITHERS.

Application No. 98/MAS/89 filed February 6, 1989

Convention date : February 15, 1988 (No. 8803465; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**4 Claims**

A sonobuoy dispenser (11) comprising a rotatable tubular cylinder (12) having a plurality of sonobuoy support means (14, 15) for supporting a plurality of sonobuoys (13) longitudinally of its external surface, an electric motor (28) for rotating the said cylinder (12), indexing means for indexing the said cylinder (12) and for positioning selected sonobuoys for release, locating means for locating the said cylinder (12) in indexed positions thereof, and release means for releasing selected sonobuoys from said support means (14, 15) characterised in that said indexing and locating means comprise a geneva mechanism (31) driven by the electric motor (28), and the said electric motor (28) is an AC motor adapted for DC braking and controlled by fibre optic switch means



172268

Int. Cl.<sup>4</sup>: G 01 D 11/30.

# HIGH PRECISION APPARATUS FOR CARRYING OUT AN OPERATION ON AN OBJECT.

**Applicant: RANK TAYLOR HOBSON LIMITED, OF  
BRITISH NATIONALITY OF 2, NEW STAR ROAD,  
LEICESTER LE4 7JQ.**

Inventor: ANTHONY BRUCE BARNABY.

Application No. 945/MAS/90 filed November 22, 1990.

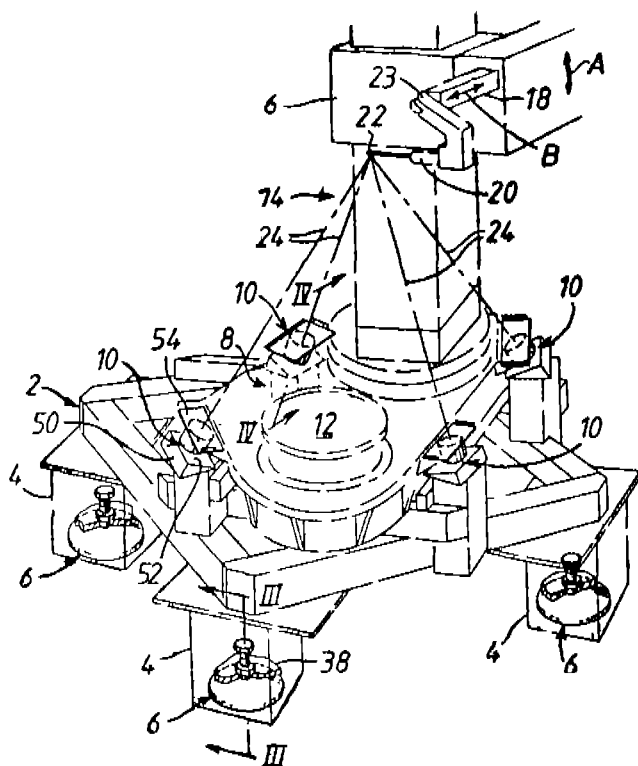
Convention date : February 25, 1986; (No. 8604596; United Kingdom).

Divisional to Patent Application No. 104/MAS/87; Antedated to February 16, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## Claims 24

High precision apparatus for carrying out an operation on an object, comprising: a base (8) for supporting the object; a support (18) carried by the base; a device (22) for performing said operation carried by said support (18) and operable in a defined zone of operation (21); and anti-vibration isolating means (10) supporting said base (8) having a higher stiffness in a first direction (24) than in a second direction transverse to said first direction (24) and is disposed to pass said first direction (24) through said zone of operation (21).



(Com. 18 pages;

Draws 5 sheets)

Ind. Class : 55-E4 [GROUP—XIX(1)]

172269

Int. Cl.<sup>4</sup>: A 61 K 9/00.

# A METHOD OF MAKING LOADED LIPOSOME VESICLES.

Applicant : SINTETICA SA, OF CH-6850 MENDRISIO,  
SWITZERLAND, A SWISS COMPANY.

**Inventors :**

- (1) MICHEL SCHNEIDER.
- (2) HERVE TOURNIER.
- (3) ROLAND HYAGINTHE.
- (4) CHRISTIAN GUILLOT.
- (5) BERNARD LAMY.

Application No. 809/MAS/91 filed October 24, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**Claims 12 (No drawing)**

A method of making loaded liposome vesicles comprising the steps of preparing liposome vehicles consisting of a core filled with an aqueous liquid phase having a osmolality not more than 200 mosm/kg, surrounded by one or more membrane of film-forming components having lamellar phospholipids and optionally non-phospholipid amphipatic compounds by introducing and homogeneously distributing one part by weight of a mixture of liposome forming lipids, at least one component of which is ionically charged, into at least 20 parts by weight of said aqueous liquid phase for a sufficient time to cause said lipids to become hydrated and lamellarized, keeping the temperature of the said aqueous liquid phase within a range of few °C above the transition temperature (T<sub>c</sub>) of the said hydrated form of the lipid; suspending the said liposome vesicles in an aqueous carrier liquid containing substances to be encapsulated; incubating the liposome dispersion at a temperature above the membrane lipid transition temperature (T<sub>c</sub>) for a sufficient time for allowing the said substances to penetrate into the core of the said liposome vesicles by trans-membrane permeation.

(Com. 31 pages).

Ind. Class : 32-F<sub>o</sub>(6) [GROUP-IX(1)]

172270

Int. Cl.<sup>4</sup>: C 07 D 211/92.

## AN IMPROVED PROCESS FOR PREPARATION OF DYCLONINE HYDROCHLORIDE.

**Applicant : SHASUN CHEMICALS (MADRAS) LTD., AN  
INDIAN COMPANY OF 13, NAGESWARARAO ROAD,  
T. NAGAR, MADRAS-600 017.**

**Inventor : B. RAMESH BABU.**

Application No. 289 / MAS/92 filed May 14, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## Claims 2

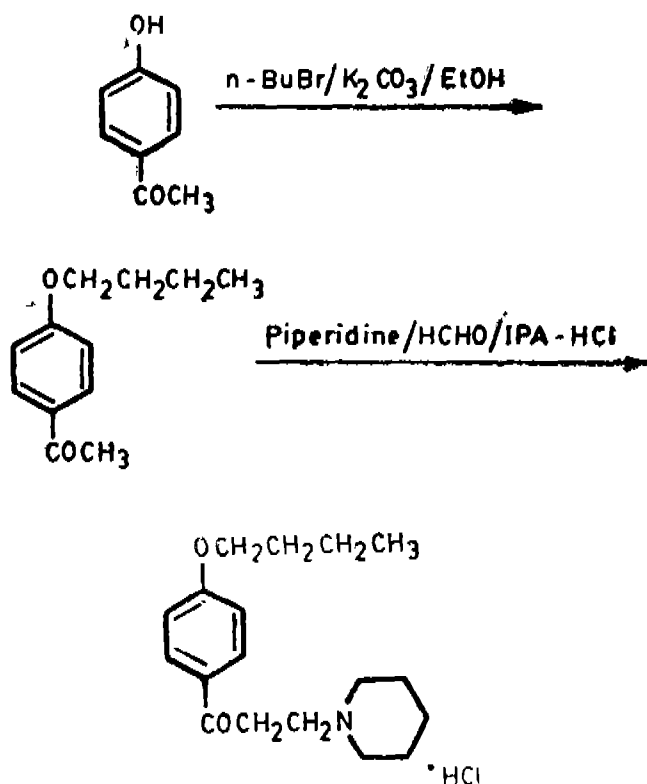
An improved process for the preparation of dyclonine hydrochloride of formula I of the accompanying drawing:

comprising the steps of reacting parahydroxy acetophenone of formula II of the accompanying drawing

with 1-bromobutane at a temperature of 60° to 70°C in the presence of potassium carbonate in ethanol to produce p-butoxyacetophenone of formula III of the accompanying drawing:

condensing the p-n-butoxyacetophenone of formula III of the accompanying drawing with formalin and piperidine in isopropanol-HCl to obtain crude dycloning hydrochloride, recrystal-

lising the crude dyclonine hydrochloride in a mixture of methanol and water in a ratio of 9.5 : 0.5 to 9.5 : 10 to obtain dyclonine hydrochloride of the formula I of the accompanying drawing.



(Com. 7 pages;

Drwg 1 sheet)

Ind. Cl. : 170 B.

172271

Int. Cl.<sup>4</sup> : C 09 J 3/00.

A THICKENED AQUEOUS COMPOSITION OF ACID OR ACID SALTS USEFUL FOR CLEANING PURPOSES AND A METHOD OF FORMING THE COMPOSITION.

Applicant : R & C PRODUCTS PTY. LIMITED, AN AUSTRALIAN COMPANY, OF 845 PACIFIC HIGHWAY, CHATSWOOD, NEW SOUTH WALES, AUSTRALIA.

Inventor : RAYMOND NEVELLE SILVESTER.

Application for Patent No. 614/DEL/87 filed on 17 Jul 1987.

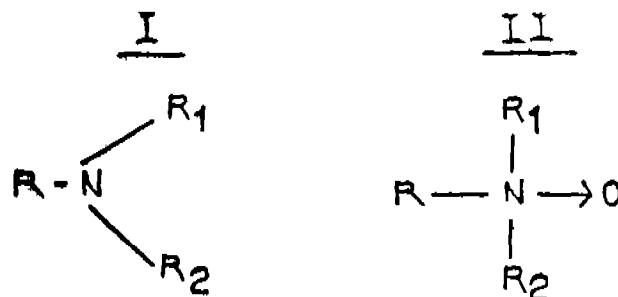
Convention date 17th July 86/PH 6989/AU.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 29 Claims

A thickened aqueous composition of acid or acid salts useful for cleaning purposes having a viscosity of not less than 30 centipoise at 25°C when measured with a Brookfield RVT viscometer at 50 rpm using a No 1 spindle, said composition including at least one compound selected from the group consisting of acids and acidic salts, as hereinbefore defined, in an amount of from 0.01—90% w/w, optionally up to 3% of a strong ionic salt, as hereinbefore defined, and an effective amount selected from within which range of

from 0.1 to 10% w/w of a thickening agent which is the only agent required to impart said viscosity and is at least one of the compounds selected from the group consisting of compounds of the formula I or II of the drawings



in which R, R<sub>1</sub> is a substituted or unsubstituted alkyl, aryl, alkaryl, aralkyl, or alkenyl group, R is hydrogen, a substituted or unsubstituted alkyl, aryl, alkaryl, aralkyl or alkenyl group, R<sub>2</sub> is hydrogen, a substituted or unsubstituted alkyl, aryl, alkaryl, aralkyl or alkenyl group, R<sub>4</sub> is a substituted or unsubstituted alkyl, aryl, alkaryl, aralkyl or alkenyl group, R<sub>5</sub> is a substituted or unsubstituted alkyl, aryl, alkaryl, aralkyl or alkenyl group, or R<sub>1</sub> and R<sub>2</sub> or R<sub>4</sub> and R<sub>5</sub> when taken together comprise a substituted or unsubstituted heterocyclic ring, provided that if either R, R<sub>1</sub> or R<sub>2</sub> is an alkyl or alkenyl group derived from a fatty acid obtained from a natural oil or fat or an equivalent synthetic fatty acid, or is an alkaryl containing from 8 to 12 carbon atoms in the alkyl moiety, then the other substituents are not respectively of the formulae: (A)<sub>x</sub>—H and (A)<sub>y</sub>—H where A is either ethoxy or propoxy and x, y are independently 1, 2 or 3, said thickening agent and the at least one compound selected from the group consisting of acids and acidic salts being together substantially water soluble.

(Com. Specn. 40 pages;

Drwg 1 sheet)

Ind. Cl. : 40 B.

172272

Int. Cl.<sup>4</sup> : B01J 23/48.

A PROCESS FOR THE PREPARATION OF A SILVER-CONTAINING CATALYST.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDTLAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS.

Inventor : GÖSSE BOXHOORN.

Application for Patent No. 637/DEL/87 filed on 27 Jul 1987.

Convention date 28 JUL 1986/8618325/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### Claims 11

A process for the preparation of a silver-containing catalyst suitable for the oxidation of ethylene to ethylene oxide which comprises

- (a) mixing alumina with a tin compound and with an alkali metal compound of the kind as herein described,

- (b) calcining the mixture to obtain an alkali metal enriched and tin-containing alumina carrier,
- (c) applying a silver compound to the alumina carrier and converting in any conventional manner said silver compound to metallic silver.

(Com. Specn. 16 pages).

Ind. Cl. : 128 G.

172273

Int. Cl.<sup>4</sup> : C01B 31/18.

IMPROVED DEVICE FOR ATTACHMENT TO AN ENDOTRACHEAL CATHETER FOR RAPID RESPONSE IN THE DETECTION OF CARBON DIOXIDE IN A GAS MIXTURE.

Applicant & Inventor : CARL GERALD FEHDER, A US CITIZEN, OF 11 MILL HOUSE LANE, CHERRY HILL, NEW JERSEY 08003, UNITED STATES OF AMERICA.

Application for Patent No. 674/DEL/87 filed on 31 Jul 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### Claims 11

An improved device for attachment to the distal end of an endotracheal catheter for providing a rapid response in respect of the detection of the presence or absence of carbon dioxide in the gas mixture surrounding said catheter which comprises :

- a housing (1) having walls enclosing an internal space;
- a transparent window (8) in a wall of said housing (1);
- an inlet (3) at one end of said housing (1);
- and outlet (5) at the end of said housing (1) opposite to said inlet (3);

an indicator component mounted within said housing (1) and viewable through said transparent window (8), said indicator component (9) comprising a carrier having fixedly attached thereto in a manner such as herein defined an indicating composition composed of (i) an aqueous alkaline solution of a colourless compound such as herein described, (ii) a hygroscopic, high boiling, transparent, colourless, water-miscible liquid such as herein described and (iii) a chromogenic pH-sensitive indicator such as herein described having a pK which is lower by 1.0 to 1.5 pH units than the pH of said alkaline solution and which changes colour relative to a change in the pH of said solution, the nature and concentration of said colourless compound bearing a relationship to the nature and concentration of said indicator so that no colour change occurs for at least fifteen minutes when said indicator component is exposed to an atmosphere having a concentration of 0.03% or less carbon dioxide but a colour change is produced within 5 to 20 seconds when said indicator component is exposed to an atmosphere having a concentration of at least 2% carbon dioxide; and

sealing means (14) surrounding said housing (1) to protect it prior to being used.

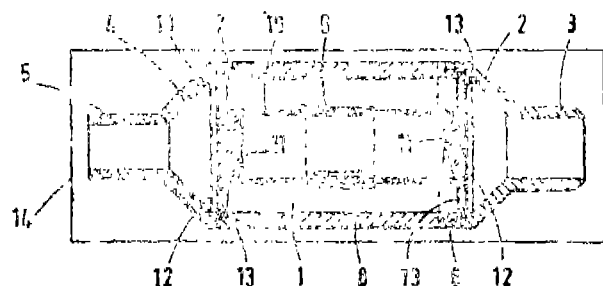


Fig. 2

(Com. Specn. 26 pages;

Drwg. 2 Sheets)

Ind. Cl. : 140 A2.

172274

Int. Cl.<sup>4</sup> : C10M 129/68.

A METHOD FOR PREPARING AN OIL SOLUBLE, METAL CONTAINING ADDITIVE FOR USE IN FUNCTIONAL FLUIDS.

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA.

Inventors : SYED QALAB ABBAS RIZVI & STEPHEN AUGUSTINE DI BIASE.

Application for Patent No. 781/DEL/87 filed on 03 Sept. 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### Claims 18

A method of preparing an oil soluble, metal containing additive for use in functional fluids, said method comprising reacting,

(A) a compound of the formula ROH, wherein R is selected from the group consisting of a hydrocarbyl group containing upto 50 carbon atoms or mixtures thereof, with

(B) a sulfur-free, phosphorus containing compound of the kind such as herein described and reacting the product so formed with

(C) a metal containing compound of the kind such as herein described in the presence of

(D) an effective amount of a catalyst of the kind such as herein described.

(Com. Specn. 45 pages).

Ind. Cl. : 84 B & 140 A2.

172275

Int. Cl.<sup>4</sup> : C 10 L 1/10 & 1/14.

A DISTILLATE FUEL COMPOSITION.

Applicant : EXXON CHEMICAL PATENTS INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1900 EAST LINDEN AVENUE, LINDEN, NEW JERSEY 07036, U. S. A., FORMERLY OF 200 PARK AVENUE, FLORHAM PARK, NEW JERSEY 07932, UNITED STATES OF AMERICA.

Inventors : KENNETH LEWTAS, EDWIN WILLIAM LEHMANN, RICHARD DIX KERWOOD, KENNETH WILLIAM BARTZ, JACQUELINE DAWN BLAND, DAVID PAUL GILLINGHAM, JOHN EDWARD MADDIX.

Application for Patent No. 822/DEL/87 filed on 18 Sept. 1987.

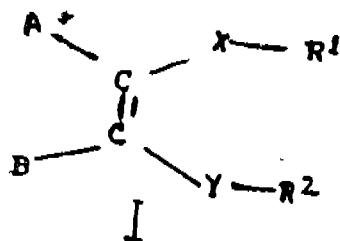
Convention dates 24 Sept. 1986 & 17 Aug 1987/8622961 & 8719423/U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A distillate fuel composition comprising :

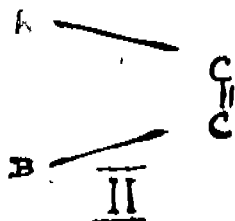
(A) 0.001 to 0.5 wt% of a compound of the general formula I of the drawings



In which  $-Y-R^2$  is  $SO_3^{(-)}(+)H_2NR^3R^2$ ,  $SO_3^{(-)}(+)H_3NR^3R^2$ ,  $-SO_2NR^3R^2$  or  $-SO_3R^2$ ;  
 $-X-R^1$  is  $-Y-R^2$  or  $-CONR^3R^1$ ,  
 $-CO_2^{(-)}(+)NR^3R^1$ ,  $-CO_2^{(-)}(+)HNR^3R^1$ ,  
 $-CO_2^{(-)}(+)H_2NR^3R^1$ ,  $-CO_2^{(-)}(+)H_3NR^3R^1$ ,  
 $-R^4-COOR^1$ ,  $-NR^3COR^1$ ,  
 $R^4OR^1$ ,  $-R^4OCCR^1$ ,  $-R^4R^1$ ,  
 $-N(COR^3)R^1$  or  $Z^{(-)}(+)NR^3R^1$ ;  
 $-Z^{(-)}$  is  $SO_3^{(-)}$  or  $-CO_2^{(-)}$ ;

$R^1$  and  $R^2$  are alkyl, alkoxy alkyl or polyalkoxy alkyl containing at least 10 carbon atoms in the main chain :

$R^3$  is hydrocarbyl each  $R^3$  may be different and  $R^4$  is nothing or is  $C_1$  to  $C_6$  alkyl in formula II of the drawings



the carbon-carbon (C-C) bond is either (a) ethylenically unsaturated when A and B may be alkyl, alkenyl or substituted hydrocarbyl groups or (b) part of a cyclic structure which may be aromatic, polynuclear aromatic or cyclo-aliphatic; and

(B) a distillate fuel oil boiling in the range 120°C to 500°C which has a wax content of at least 0.3 wt% at a temperature of 10°C below the Wax Appearance Temperature, the wax crystals of the composition at that temperature having an average particle size less than 4000 nanometres.

(Compl. specn. 42 pages;

Drgs. 6 sheets)

Ind. Cl. : 150 G.

172276

Int. Cl.4 : D21F 1/00.

A ROTARY JOINT FOR ROTATING HEAT EXCHANGER DRUMS.

Applicant : THE JOHNSON CORPORATION, A CORPORATION OF MICHIGAN, U.S.A., OF 805 WOOD STREET, THREE RIVERS, MICHIGAN, U.S.A., 49093.

Inventor : GERALD L. TIMM.

Application for Patent No. 846/Del/87 filed on 24th September 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

## 6 Claims

A rotary joint for rotating heat exchanger drums comprising internally pressure-balanced seals (50), an elongated tubular nipple (30) having an axis an outer (32) end for coaxial attachment to a drum shaft for rotation therewith about the axis of drum rotation, and an inner (36) end, a body (30), a chamber (22) defined in said body having first (24) and second (26) sides having flat inner surfaces, a bracket (16) mounting surface on said body (30) for substantially rigidly mounting said body relative to said (9) drum, a port (42) in said body in communication with said chamber (22), an opening (40) in said body first said, said nipple (30) extending through said opening wherein said inner (36) end is located within said chamber (22), said nipple inner (36) end including a first concentric cylindrical surface of enlarged diameter (38), first (48) and second (60) collars mounted upon said nipple inner (36) end first surface for rotation with said nipple

(30), means mounting at least one of said collars on said enlarged first surface (38) for axial displacement thereon, a spherical surface (50, 62) defined upon each of said collars (48, 60), the center of said spherical surfaces being located upon said nipple axis and having maximum and minimum radial dimensions with respect to said nipple axis, said spherical surfaces (50, 62) of said first (48) and second (60) collars being disposed toward said body first (24) and second (26) sides, respectively, first (54) and second (60) annular seal rings interposed between and sealingly engaging said first body (24) side inner surface and said first collar (50) spherical surface and said second (26) body side inner surface and said second (62) collar spherical surface, respectively, said seal rings (50, 60) each being substantially concentric to said nipple axis and having inner and outer diameters, a flat radial seal surface (62) engaging the adjacent body inner (36) surface and a spherical seal (60) surface complementary to and engaging the spherical surface of the adjacent collar, the inner diameter of said seal rings and the inner diameter of the spherical surfaces of said collars being less than the diameter of said nipple inner end enlarged portion and, the outer diameter of said seal rings being less than the outer diameter of the spherical surfaces of said collars first pressure faces (86) on said collars (48, 60) and seal rings (54, 80) biasing said collars (48, 60) and seal (54, 80) rings toward the associated body side when exposed to the fluid pressure within said chamber, second pressure faces (90) on said collars (48, 60) and seal rings (54, 80) biasing said collars (48, 60) and seal (54, 80) rings away from the associated body side when exposed to the fluid pressure within said chamber, the areas of said first pressure (86) faces being only slightly greater than the areas of said second pressure (90) faces whereby the axial forces imposed upon said seal (54, 80) rings by the chamber fluid pressure is substantially balanced, and passage means establishing communication between said chamber (22) and said nipple (30).

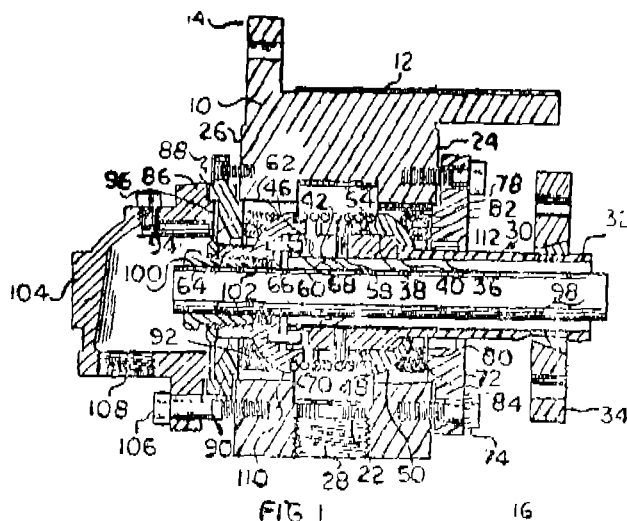


FIG 1

16

(Compl. Specn. 18 pages.

Drwg. 1 sheet)

Ind. Cl. : 146 E.

172277

Int. Cl.<sup>4</sup> : G01J 5/08 & G01D 5/26.

## AN OPTICAL PYROMETER.

Applicant : SMITHS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF 765 FINCHLEY ROAD, LONDON NW11 8DS, ENGLAND.

Inventor : RONALD ALFRED MASOM.

Application for Patent No. 1001/Del/87 filed on 23rd November 1987.

Convention date 10th December 1986/8629492/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

## 11 Claims

An optical pyrometer comprising an optical radiation receiving head (1) for receiving radiation; a flexible fibre optic cable (4) having one end coupled with the receiving head (1) for transmitting radiation from the receiving head (1); an optical detector assembly (3) fixed at the other end of the cable (4) and including a first rigid casing (30) enclosing an optical radiation detector device (3) and amplifier means (38) having an input connected with the detector device (3), an output connected with a first mateable electrical connector device (32) on said casing (30); a processing unit (5) including a second rigid casing (53) containing electrical circuit means (54) having an input (56) connected with a second mateable electrical connector device (32) on the second casing (53), said circuit means (54) processing the output of the detector assembly (3), said second connector device (32) being engageable directly with the first connector device (52) for connecting said optical detector assembly with the processing unit (5) without the interposition of any cable (57) between the respective casings (30, 53).

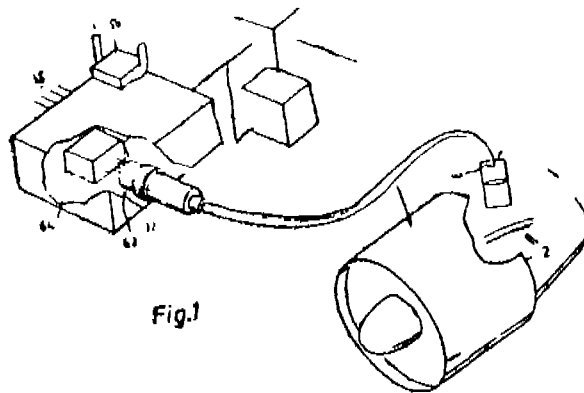


Fig.1

(Compl. Specn. 12 pages.

Drwg. 3 sheets)

Ind. Cl. : 70 B.

172278

Int. Cl.<sup>4</sup> : H01M 10/00.

## METHOD FOR TREATMENT OF A HYDROGEN STORAGE NEGATIVE ELECTRODE TO PROVIDE MINIMAL HYDROGEN GAS GENERATION CHARACTERISTICS THERETO.

Applicant : ENERGY CONVERSION DEVICES, INC., A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA HAVING AN ADDRESS AT 1675 WEST MAPLE ROAD, TROY, MICHIGAN, UNITED STATES OF AMERICA.

Inventors : BENJAMIN REICHMAN, SRINI VENKATESAN, MICHAEL A. FETCENKO, KENNETH JEFFRIES, SHARON STAHL & CLIFFORD BENNETT.

Application for Patent No. 1005/Del/87 filed on 24th November 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

## 20 Claims

A method for the treatment by alteration of the surface oxides of a hydrogen storage negative electrode containing active electrode material which electrode displays excessive hydrogen gas evolution thereby leading to undesirable levels of gas pressure build-up when said electrode is disposed within a sealed hydrogen storage electrochemical cell which comprises :

- chemically or electrochemically treating said negative electrode to alter or remove at least a portion of the surface oxides thereof, increase the roughness of said surface and provide a charge thereto; and
- discharging in a manner such as herein described at least a portion of the charge imparted to provide an electrode having minimal hydrogen gas generation characteristics.

(Compl. Specn. 53 pages,

Drwg. 6 sheets)

Ind. Cl.: 204.

172279

Int. Cl.: G01G 19/18.

**APPARATUS FOR WEIGHING RAILCARS IN MOTION.**

Applicant: KILO-WATE, INC., P.O. BOX 798, GEORGETOWN, TEXAS 78627 OF THE UNITED STATES OF AMERICA.

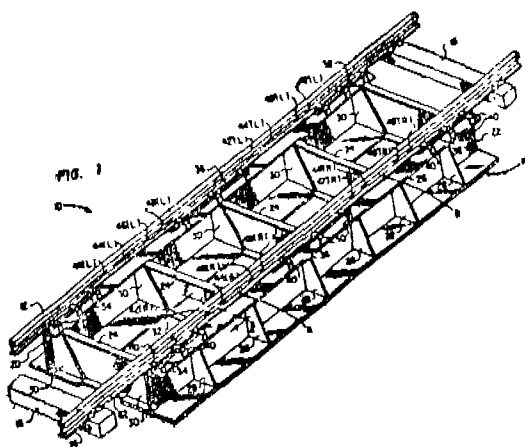
Inventor: EDWIN DES SNEAD.

Application for Patent No. 1010/Del/87 filed on 26th November 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

**6 Claims**

Apparatus for weighing railcars in motion, said apparatus having a plurality of weigh scales, each said weigh scale comprising a plurality of longitudinally spaced sensors (42, 44, 46, 48) secured to a predetermined length of relatively unsupported rail track (12, 14) for measuring rail truck stresses imposed by a railcar passing thereon, said weigh scales (42, 44, 46, 48) being provided A (42, 44, 46, 48) & B (42, 44, 46, 48) in tandem on the said rail track (12 or 14) for making stress measurements from a plurality of different select locations about the circumference of a common wheel of a moving railcar traversing said length of unsupported rail track whereby unequal stresses imposed by wheel eccentricities are measured, said weigh scale (A & B) being connected to calculating means (52, 66) wherein signals received from said weigh scales (A & B) are averaged to provide an accurate weight measurement of the moving railcar.



(Compl. Specn. 17 pages.)

Drwg. 2 sheets)

Ind. Cl.: 32 B.

172280

Int. Cl.: C07B 35/04.

**PROCESS FOR PRODUCING DEHYDROGENATED HYDROCARBONS.**

Applicant: UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL OFFICE LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS, UNITED STATES OF AMERICA.

Inventor: TAMOTSU IMAI.

Application for Patent No. 1070/Del/87 filed on 14th December 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**8 Claims**

A process for producing dehydrogenating hydrocarbon from the corresponding dehydrogenatable hydrocarbon having at least 2 to 30 or more carbon atoms including paraffins, alkyl aromatics, naphthenes and olefins comprising the steps of contacting the said dehydrogenatable hydrocarbon at dehydrogenation conditions such as herein described with a catalyst system which comprises a combination of a platinum group metal component and a modifier metal component selected from the group consisting of tin, germanium, rhenium, and mixtures thereof, with a solid refractory oxide catalyst support having a nominal equivalent diameter of at least 850 microns, the platinum group and modifier metal components are surface-impregnated, and the average concentration of the surface-impregnated platinum group component and modifier metal component in the outside 100 micron layer of the catalyst support are each at least twice the concentration of the respective components in the 100 micron diameter centre core of the catalyst support.

(Compl. Specn. 26 pages.)

Drwg. 4 sheets)

Ind. Cl.: 32 B &amp; D.

172281

Int. Cl.: C10 G 47/00.

**A HYDROCRACKING PROCESS.**

Applicant: UOP INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA WITH ITS PRINCIPAL OFFICE LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS 60017-5017, UNITED STATES OF AMERICA.

Inventor: ADRIAN J. GRUTA.

Application for Patent No. 829/Del/87 filed on 21st September 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims**

1. A catalytic hydrocracking process which comprises:

- introducing a reduced crude into a vacuum fractionation zone to produce a vacuum gas oil stream containing compounds having a propensity to form detrimental polynuclear aromatic compounds in a hydrocracking zone, a slop wax side stream and a vacuum bottoms;
- contacting said vacuum gas oil stream in a hydrocracking zone with added hydrogen and a metal promoted hydrocracking catalyst at elevated temperature and pressure sufficient to gain a substantial conversion to lower boiling products and to form trace quantities of polynuclear aromatic compounds;
- partially condensing the hydrocarbon effluent from said catalyst in said hydrocracking zone and separating the same into a low boiling hydrocarbon product stream and a stream containing unconverted hydrocarbons boiling above about 650°F (343°C) and the polynuclear compounds; and
- introducing at least a portion of said stream containing unconverted hydrocarbons and polynuclear aromatic compounds into said vacuum fractionation zone thereby recovering a substantial portion of said polynuclear aromatic compounds in said slop wax side stream which significantly minimizes the introduction of said detrimental polynuclear aromatic compounds into said hydrocracking zone.

(Compl. Specn. 21 pages.)

Drwg. 1 sheet)

Ind. Cl. : 32 E.

172282

Int. Cl.<sup>4</sup> : C08F 132/06.**A METHOD FOR PREPARING AN UNCROSSLINKED COPOLYMER FROM THE POLYMERIZATION OF ETHYLENE.**

Applicant : EXXON CHEMICAL PATENTS INC., A CORPORATION OF DELAWARE, U.S.A., CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENCES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 1900 EAST LINDEN AVENUE, LINDEN, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : RICHARD GRAHAM AUSTIN AND HOWARD CURTIS WELBORN.

Application for Patent No. 1013/Del/87 filed on 27th November 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims**

A method for the preparation of an uncrosslinked copolymer of ethylene and 1, 5-hexadiene which comprises polymerizing in a conventional manner ethylene and at least one other polymerizable comonomer of the kind as herein described having at least 0.1 mole percent of 1, 5-hexadiene, said polymerization being carried out in the presence of a metallocene/alumoxane catalyst complex consisting of an alumoxane cocatalyst or reaction product thereof in conjunction with a metallocene catalyst represented by the general formula  $(C_p)mNRnR^1p$  wherein  $C_p$  is a substituted or unsubstituted cyclopentadienyl ring;  $M$  is a Group IVB, VB, or VIB transition metal;  $R$  and  $R^1$  are independently selected halogen, hydrocarbyl group, or hydrocarboxyl groups having 1-20 carbon atoms;  $m=1-3$ ,  $n=0-3$ ,  $p=0-3$ , and the sum of  $m+n+p$  equals the oxidation state of  $M$  hereby forming an uncrosslinked ethylene/1, 5-hexadiene copolymer having in its structure at least 3 mole percent of said at least one polymerizable comonomer and having a cluster index of 9 or less, said copolymer having an alpha olefin content less than 15 weight percent.

(Compl Specn. 34 pages.)

Drwg. 3 sheets)

(c) a separator means as herein described positioned between the positive and negative electrodes;

(d) electrolyte of the kind such as herein described in contact with the separator means and the positive and negative electrodes; and

(e) sealed contained means containing the positive and negative electrodes, spacer means, and electrolyte means in operative relationship.

(Compl. Specn 56 pages.)

Drwg. 4 sheets)

Ind. Cl. : 981 VIII (2)

172284

Int. Cl. : F03G 7/02, F24J 2/00

**SOLAR COLLECTERS FOR COLLECTING SOLAR ENERGY.**

Applicant : RAJVIR SINGH, 50 THOMPSON ROAD, NEW DELHI.

Inventor : Rajvir Singh.

Application for Patent No. 101/DEL/88. Filed on 5th Feb. 1988.

Appropriate office for opposition proceedings (Rule-4, Patents Rule 1972), Patent Office Branch, New Delhi-110 005.

**2 Claims**

A solar collector for collecting solar energy which comprises a circular glass pan, a circular metallized polyester film attached air-tightly to said glass pan by means of a rubber ring fixed around the said glass pan using by conventional adhesive and a valve fitted with a rubber tube provided to blow air between said glass pan and said metallized polyester film to raise film thereby making a convex shape of the surface of said film for reflecting & concentrating such radiations on the focus point or heat converter.

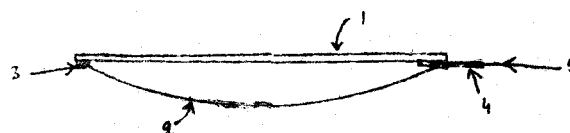


FIGURE 2

(Comp. Spcn. 5 Pages;

Drwg. Sheet 1).

Ind. Cl. : 70A.

172283

Int. Cl.<sup>4</sup> : H01M 10/28, 14/00.**A RECHARGEABLE ELECTROCHEMICAL CELL.**

Applicant : ENERGY CONVERSION DEVICES, INC. A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA HAVING AN ADDRESS AT 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventors : SRINI VENKATESAN, BENJAMIN, REICHMAN AND MICHAEL ARTHUR FETCENKO.

Application for the Patent No. 1026/Del/87 filed on 1st December 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**15 Claims**

A rechargeable electrochemical cell comprising :

(a) a positive electrode of the kind such as herein described;

(b) a reversible electrochemical hydrogen storage means comprising titanium, vanadium, zirconium, nickel, and chromium, being comprised of at least 80 atomic percent  $(Ti_{2-x}Zr_xV_yNi_y)$  and upto 20 atomic percent of Cr. where  $x$  is between 0.0 and 1.5, and  $y$  is between 0.6 and 3.5 the  $V$  being soluble in the electrolyte and the  $Cr$  stabilizing the  $V$ ;

Ind. Cl. : 129 G &amp; Q

172285

Int. Cl.<sup>4</sup> : B 21F-15/08  
27/50B 23K-23/00  
35/40F 16B-5/08  
11/00**A METHOD FOR PRODUCING AN IMPROVED WELDED STRUCTURE.**

Applicant : ALCAN INTERNATIONAL LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF CANADA, OF 1188 SHERBROOKE STREET WEST, MONTREAL, QUEBEC, CANADA.

Inventors : NIGEL JOHN HENRY HOLROYD GEOFREY MAC SCAMANS.

Application for Patent No. 146/DEL/1988 filed on 23-2-88. Convention date 24-2-1987/8704251/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972), Patent Office Branch, New Delhi-110 005.

## 8 Claims

A method for producing an improved welded structure comprising the steps of :

- (i) joining two Al alloy components by means of a weld bead;
- (ii) at least partially covering the weld beads with a surface layer of an Al alloy formed in a manner such as herein described such that the surface layer contains in from 0.02 to 0.4% by weight the in being present substantially in solid solution.

(Comp. Specn. 22 Pages;

Drwg. Nil)

Ind. Cl. : 129 G & J

172286

Int. Cl.<sup>4</sup> : B 22 F 3/18

**A PROCESS FOR THE PRODUCTION OF Ag/AgCd COMPOSITE BY ROLL CLADDING TECHNIQUE.**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PROBHAT BASAK; SAILENDRA CHANDRA DEV & RADHAKRISHNA DUBEY.

Application for Patent No. 183/DEL/88 filed on 10 March 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

## 2 Claims

A process for the production of Ag/AgCd composite substrate by roll cladding technique which comprises (1) melting silver cadmium alloy and casting in slab form; (2) hot rolling the ingot slab between 500 to 550°C to the desired thickness (3) melting pure silver of 99.9% purity and casting in a slab form (4) hot rolling the pure silver slab to the thickness of 1/10 of that thickness as mentioned in step (2) above; (5) cutting the rolled silver sheet having length and breadth equal to that of said hot rolled silver-cadmium alloy plate; (6) flattening and roughing one surface of the silver-cadmium alloy plate and one surface of said pure silver sheet; (7) degreasing the surface so prepared by petroleum ether; (8) matching the degreased surface against each other, thus forming a composite; (9) charging the composite in an electric muffle furnace at 550°C; (10) soaking in air for 60 min.; (11) hot rolling of the composite at 550°C with initial reduction of at least 30% of the composite thickness subjecting the composite to hot rolling to further 30% reduction; (12) heating the rolled composite at 550°C for 40 min; (13) hot rolling the composite to the desired thickness.

(Comp. Specn. 10 Pages.)

Ind. Cl. : 32F<sub>3</sub> b

172287

Int. Cl.<sup>4</sup> : C07C 51/12

**IMPROVED PROCESS FOR THE CARBONYLATION OF ALCOHOLS TO CARBOXYLIC ACIDS.**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : ASHUTOSH ANANT KELKAR, RAGHUNATH VITTHAL CHAUDHARI.

Application for Patent No. 263/DEL/88 filed on 30 Mar 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

## 6 Claims

An improved process for the carbonylation of alcohol to carboxylic acids which comprises reacting the alcohol with a ruthenium complex catalyst; prepared in situ by reacting ruthenium halides, N containing organic compounds such as triphenyl phosphine triphenyl arsene, tributyl phosphine tributyl phosphate, isoquinoline, quinolene,  $\alpha$ -picoline,  $\beta$ -picoline  $\gamma$ -picoline, 2,6 lutidine, 3,5 lutidine, pyrrolidene, triethyl amine and the like in the presence of iodine containing compounds such as iodine hydroiodic acid or alkyl iodides and organic solvent selected from carboxylic acid at a temperature in the range of 100—350°C flushing the reactor with nitrogen followed by pressurising with carbon monoxide to a pressure of 5—5000 psig & hydrogen and recovering the acid by known methods.

(Comp. Specn. 17 Pages.)

Ind. Cl. : 52 E<sub>2</sub> + E<sub>4</sub> + 32F<sub>3</sub> (C)

172288

Int. Cl.<sup>4</sup> : C07G 11/00

**A PROCESS FOR THE PREPARATION OF B AVERMECTINS.**

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42 AND STREET, NEW YORK, STATE OF NEW YORK UNITED STATES OF AMERICA.

Inventors : EDMUND WILLIAM HAFNER, KEVIN SCOTT HOLDOM & SHIH-JEN EDWARD LEE.

Application for the Patent No. 1144/DEL/87, filed on 29th December, 1987.

Appropriate Office for Opposition Proceedings (Rule No. 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## 7 Claims

A process for the preparation of a B avermectins, said process comprises aerobically fermenting with a strain of streptomyces avermitilis which lacks branched-chain 2-oxo acid dehydrogenase activity and avermectin 5-0-methyltransferase activity, an aqueous nutrient medium comprising an assimilable source of nitrogen, carbon and inorganic salts and a compound of formula RCOOH wherein R is an alpha-branched-chain group, the carbon atom thereof to which is attached the —COOH group is also attached to at least two other atoms or groups other than hydrogen or a compound such as herein described which is convertible to said compound during the fermentation process.

(Compl. Specn. 44 Pages;

Drg. 1 Sheet)

Ind. Cl. : 32 F

172289

Int. Cl.<sup>4</sup> : C12G 3/00, 3/02 C12P 7/02, 7/06

**AN IMPROVED CONTINUOUS PROCESS FOR THE PRODUCTION OF ALCOHOL BY OPTIMIZED AND HOMOGENOUS FERMENTATION OF SUGAR.**

Applicant : ENGENHO NOVO S.A., Av ALMIRANTE BARROSO, 52,80, ANDAR, RIO DE JANEIRO, BRAZIL—A COMPANY INCORPORATED UNDER THE LAWS OF BRAZIL.

Inventor(s) : AFFONSO CARLOS SEABRA DA SILVA TELLES, CLAUDIO MARIANO VAZ.

Application for Patent No. 375/DEL/88 filed on 29th Apr 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

## 7 Claims

An improved continuous process for the production of Alcohol by optimized and homogenous fermentation of sugars which comprises the following process steps :—

- (a) continuous feeding a wort with a controlled concentration of sugars in the range of 100 to 160 g/l into one or more than one fermentation vessel arranged in parallel and containing a culture with a concentration of non flocculant yeasts in the range of  $10^{11}$  to  $10^{12}$  cells per litre, and completely stirring the fermentation medium to maintain homogenous fermentation conditions in the medium;
- (b) maintaining the fermentation medium at a temperature in the range of 30 to 39° C and pH in the range of 3.2 to 4.5;
- (c) continuously removing from the fermenter stream of wine obtained from the wort fermentation so as to keep residence time in the fermenter fixed in the range of 4 to 9 hours; and
- (d) separating by means of a centrifugation separating device the stream of wine leaving the fermenter into a substantially yeast-free stream and a yeast-concentrated stream, said yeast-containing stream being recirculated to the fermenter and said substantially yeast-free stream being led to subsequent processing for the recovery of alcohol,

the fermentation medium being maintained as homogenous and constant as possible around the fermenting yeast under all the conditions in above steps (a), (b) and (c) during the fermentation cycle.

(Comp. Specn. 14 Pages;

Drg. 1 Sheet.)

Ind. Cl. : 195 B

172290

Int. Cl. : F 17C 13/02

**A LIQUEFIED GAS PRESSURE REGULATOR FOR CONNECTION TO A CONTAINER CONTAINING LIQUEFIED GAS.**

Applicant : GASLOW INTERNATIONAL LTD., A BRITISH COMPANY, OF HOPE HOUSE, 21 HOPE DRIVE, THE PARK, NOTTINGHAM, ENGLAND.

Inventor : FREDERICA ANN GAUNT.

Application for Patent No. 488/DEL/1988 filed on 1st June, 1988.

Appropriate office for opposition proceeding (Rule 4, Patents Rule 1972), Patent Office Branch, New Delhi-110 005

## 7 Claims

A liquefied gas pressure regulator for connection to a container containing liquefied gas, the regulator being provided with a body having a gas inlet (26), a gas outlet and a pressure chamber (19) communicating with said gas inlet (26) and outlet, the pressure chamber communicating with the inlet through a valve, the pressure chamber in part being limited by a control diaphragm (16) which is in communication with gas pressure in the pressure chamber and said inlet valve, resilient means between a wall of said body and said diaphragm for biasing said diaphragm for deflection to cause opening of the inlet valve in response to gas pressure in the pressure chamber falling below a predetermined constant value, said diaphragm being deflectable in an opposite direction by gas pressure in excess of said constant value to close said valve thereby maintaining the constant pressure value in said pressure chamber whilst gas pressure in said inlet exceeds said constant value, the diaphragm being connected to sensor means (50) in turn connected to indication means (60) which provides an indication when a predetermined quantity of liquefied gas remains in the container by virtue of the deflection

of the diaphragm when gas pressure in said pressure chamber falls below said constant value.

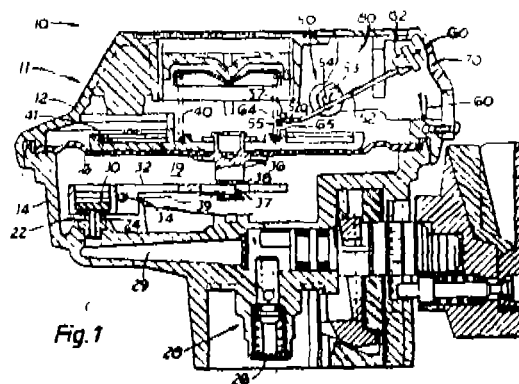


Fig. 1

(Compl. Specn. 13 Pages;

Drg. 3 Sheets.)

PATENTS SEALED ON 30-04-1993

169715\*D 169755 170047\*D 170051\* 170052\* 170053 170054  
170057\* 170061\* 170068 170069 170211\* 170225 170232  
170233 170256 170306\*D 170712\*D

Cal—12, Mas—05, Del—1, & Bom—Nil.

\*Patent shall be deemed to be endorsed with the words "LICENCE OF RIGHT" Under Section 87 of the Patent Act, 1970 from the date of expiration of three years from the date of sealing.

D—DRUG Patent, F—FOOD Patent.

## AMENDMENT PROCEEDING UNDER SECTION 57

The amendment proposed by Metallgesellschaft Aktiengesellschaft, of Reuterweg 14, D-6000 Frankfurt am Main West Germany, a West German Company, and AMH-CHEMIE GMBH, of postfach 1268, D-2212 Brunsbüttel, West Germany, a West German Company in respect Patent appln. No. 168208 as advertised in Part III, Section 2 of the Gazette of India on the 17-10-1992 and no opposition being filed within the stipulated period the said amendment has been allowed.

The amendment Proposed by Fuel Concepts Inc, a Michigan Corporation of 500 Griswold, Detroit, Michigan 48226, U.S.A. in respect of Patent application No. 168518 as advertised in part III Section 2 of the Gazette of India on the 26th December, 1992 and no opposition being filed within the stipulated period, the amendment has been allowed.

The amendment proposed by M & T Chemicals Inc, a corporation organized under the laws of the state of Delaware, U.S.A. of one Woodbridge Center Woodbridge NJ 07095, U.S.A. in respect of Patent application No. 168762 as advertised in Part III, Sec. 2 of the Gazette of India on the 31-10-1992 and no opposition being filed within the stipulated period, the said amendment has been allowed.

The amendments proposed by the Research Foundation for Microbial Diseases of Osaka University, C/o Osaka, University 3-1 Yamadaoka, Suita-shi, Osaka, Japan, in respect of Patent application No. 169969 as advertised in part III, section 2 of the Gazette of India on the 6-6-1992 and no opposition being filed within the stipulated period, the said amendment has been allowed.

The amendments proposed by cyprus Industrial Minerals Company, a division of cyprus corporation of 7000 south yosemite street Englewood, colorado 80155, Delaware, a Corporation Organised under the laws of U.S.A. in respect of application for Patent No. 170645 as advertised in Part III, Section 2 of the Gazette of India on 19-12-1992 and no opposition being filed within the stipulated period, the said amendment has been allowed.

The amendments proposed by SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESSELLSCHAFT in respect of Patent Application No. 217/Mas/88 (171461) as advertised in Part III, Section 2 of the Gazette of India on 21-11-1992 and no Opposition being filed within the stipulated period, the said amendments have been allowed.

(PATENT SHALL BE DEEMED TO BE ENDORSED WITH THE WORDS "LICENCE OF RIGHT" UNDER SECTION-87)

164876 164878 163641 164064 164081 164417 164446 164447  
164464 164465 164493 164714 164740 164768 164786 164809  
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164871 164872 164775 164811 164815 164816 164822 164824  
164826 164859 164862 164898 164910 164929 164951 164961  
164985 164999 164916 164918 164938 164939 164941 164957  
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165144 165154 165162 165164 165170 165208 165214 165059  
165085 165152 165161 165191 165198 165184 165195 150416  
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155150 155182 155207 155211 155304 155319 155324 155631  
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157672 157736 157772 158195 158271 158363 158648 158670  
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160335 160360 160451 160465 160515 160516 160520 160535  
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161570 161677 161789 161813 161865 162004 162088 162183  
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165570 165659 165679 165730 165810 165846 165870 165893  
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166626 167155 167358 167375 167472 167478 167491 167492  
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168083 168191 168192 168230 168302 168324 168496 168677  
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169052 169097 169189 169191 169254 169480 169511 169512  
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#### CESSATION OF PATENTS

164591 164602 164604 164605 164613 164614 164624 164626  
164627 164631 164633 164636 164643 164651 164659 164663  
164665 164687 164688 164701 164708 164717 164724 164728  
164731 164734 164743 164745 164750 164759 164765 164770  
164774 164787 164800 164801 164802 164805 164814 164818  
164823 164825 164830 164832 164833 164836 164844 164846  
164852 164855 164865 164868 164879 164881 164882 164885  
164899 164900 164911 164915 164920 164921 164922 164923  
164925 164934 164935 164947 164948 164952 164953 164965  
64971 164972 164979 164988 165010

#### RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 156484 granted to Machinefabriken Technische Handels order naming M.H. Vander Graaf B.V. for an invention relating to "Friction Clutch".

The Patent ceased on the 17th April, 1992 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent will be notified in the Gazette of India, Part III, Section 2 dated the 22nd May, 1993.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 29th July, 1993 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he based his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 157891 granted to Kennecott Corporation for an invention relating to "solid-matte oxygen convertory process".

The Patent ceased on the 18th May, 1992 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent will be notified in the Gazette of India, Part III, Section 2 dated the 22nd May, 1993.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 29th July, 1993 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he based his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years, from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration of the designs included in the entry.

Class 1. No. 164507. T.T. Limited of 78, Old Madras Road, Doorvani Nagar, Bangalore-560016, Karnataka, India, Indian Company. "Pressure Cooker Body". July 3, 1992.

Class 1. No. 164699. Hitendra Vrajilal Solanki & Aarti Chandrakant Solanki, Indian of A-34, Silver Arc behind Town Hall, Ellis Bridge, Ahmedabad-380006, Gujarat, India. "Self Adjusting Wrench". August 26, 1992.

Class 1. No. 164772. Polar Fan Industries Ltd. of Poddar Point, 113, Park Street, 8th floor, Calcutta-700016. W.B., India, Indian Co. "Ceiling Fan". Sept. 9, 1992.

Class 1. No. 164773. Polar Fan Industries Ltd. of Poddar Point, 113, Park Street, 8th flr., Calcutta-700016. W.B., India, Indian Co. "Ceiling Fan". September 9, 1992.

Class 1. No. 164820. Earl Bihari Pvt. Ltd. of 148-F, St. Cyril Road, Bandra, Bombay-400050, Maharashtra, India. "Hinge". September 28, 1992.

Class 1. No. 164883. Talcherkars. Pvt. Ltd. of Pushpa Kunj, Palkhi Wadi, Off. Kashinath Dhuru Road, Prabhadevi, Bombay-400028. Maharashtra, India. "Display System". October 12, 1992.

Class 1. No. 164915. Graphic Industries Co., Indian Partnership Firm of 22, Netaji Subhash Road, Calcutta-700001, W.B., India, "Double Drum Thresher". October 23, 1992.

Class 1. No. 165063. Graphic Industries Co., Indian Partnership Firm of 22, Netaji Subhash Road, Calcutta-700001, W.B., India. "Multipurpose Power Cart". December 3, 1992.

- Class 1. No. 165115. Khaitan (India) Ltd., Indian Company, of 46C, J. L. Nehru Road, Calcutta-700071, W.B., India. "Regulator for Electric Fan". December 16, 1992.
- Class 1. Nos. 165118 & 165119. Khaitan (Indi) Ltd., Indian Company, of 46C, J. L. Nehru Road, Calcutta-700071, W.B., India. "Rotor Housing for electric ceiling fan". December 16, 1992.
- Class 1. No. 165128. Ravissant Pvt. Ltd. of Ravissant Commercial Complex, 50-51, Friends Colony, New Delhi-110065.
- Class 3. No. 164673. Excel Straps Pvt. Ltd., Indian Co., Flat No. 5, Sector 27-A, Mathura Road, Faridabad-121002, Haryana, India. "Ironing Cabinet". August 13, 1992.
- Class 3. No. 164782. Cosmic Traffic Systems Pvt. Ltd. of 5, Anjali Apartments, Ramakrishna Mission Marg, 14B, Road, Khar (West), Bombay-400052, Maharashtra, India. "Road Studs". September 15, 1992.
- Class 3. No. 164821. Henty C. Yuen, a citizen of U.S.A. of P.O. Box 1159, Redondo Beach, California 90278, U.S.A. "Remote controller for video cassette recorders cable boxes and satellite receivers". September 28, 1992.
- Class 3. No. 164908. Indian Toners & Developers Ltd. of 5E, Gopala Towers, 25, Rajendra Place, New Delhi-110008, India. "Bottle container" October 21, 1992.
- Class 3. No. 164943. The Deepak Oil Mills, D-2, Okhla Industrial Area, Phase-1, New Delhi-110020, India. "Bottle". November 9, 1992.
- Class 3. No. 164933. IBP Co. Ltd. of Ghlender House, 8, Netaji Subhash Road, Calcutta-700001, West Bengal, India. "Explosive Casing". November 3, 1992.
- Class 3. No. 165026. Interlego A.G., a Swiss Company of Neuhoferstrasse 21, CH-6340 Baar, Switzerland. "Toy Dragon". November 24, 1992.
- Class 3. Nos. 165113 & 165114. Plastosen (P) Ltd. of Indian Company of P-2, CIT Road, Calcutta-700014, West Bengal, India. "Bottle". December 16, 1992.
- Class 3. No. 165117. Khaitan (India) Ltd., Indian Company of 46C, J. L. Nehru Road, Calcutta-700071, W.B., India. "Canopy for electric ceiling fan". December 16, 1992.
- Class 4. No. 164950. Amity Perfumes Pvt. Ltd. of 19/21, Gor Kalyan Building, 2nd floor, Bora Bazar Street, Fort, Bombay-400001, Maharashtra, India. "Bottle". November 11, 1992.
- Class 10. No. 164899. Fraternity International of 16/7, Sadar Bhatti Crossing Agra, U.P., India, Indian Partnership Firm. "Shoes". October 15, 1992.
- Class 12. No. 164631. Richie Rich Products, A-18, Ram House Middle Circle, Connaught Place, New Delhi-110001, India. "File cover". July 29, 1992.
- Class 12. No. 164632. Richie Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110001, India. "File cover". July 29, 1992.

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Controller General of Patents,  
Designs and Trade Marks.

